CLAIMS

What we claim is:

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- 1. A composition comprising an isolated shrimp or prawn androgenic polypeptide.
- 2. A neomale shrimp or prawn which does not contain transplanted androgenic gland tissue.
- 3. A method of producing a neomale shrimp or prawn comprising:

 treating a female shrimp or prawn with a composition comprising an androgenic polypeptide to produce a neomale shrimp or prawn.
- 4. The method of claim 3, wherein said treating comprises injecting.
- 5. The method of claim 3, wherein said treating comprises contacting.

6. A method of producing a population of shrimp or prawns having a skewed percentage of females to males, comprising:

breeding a neomale shrimp or prawn which does not contain transplanted androgenic tissue with a corresponding female shrimp or prawn, whereby a population of shrimp or prawns having a skewed ratio of males to females is produced.

- 7. The method of claim 6, wherein said percentage of females is greater than about 80%.
- 8. The method of claim 6, wherein said percentage of females is greater than about 90%.
- 9. The method of claim 6, wherein said percentage of females is 100%.

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- 10. A population of shrime or prawns having a skewed percentage of females to males made according to the method of claim 6.
- 11. A population of shrimp or prawns having a skewed percentage of females to males of greater than about 90%.
- 12. A method of identifying an agent which bindings to an androgenic polypeptide of a shrimp or prawn comprising:
 - a) contacting a candidate agent with an androgenic polypeptide of a shrimp or prawn; and
- b) detecting the binding of said candidate agent with said polypeptide, whereby an agent which binds to said polypeptide is identified.

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- 13. A method of identifying an agent which modulates the biological activity of an androgenic polypeptide of a shrimp or prawn comprising:
- a) treating a female shrimp or prawn with a composition comprising an isolated androgenic polypeptide of a shrimp or prawn and a candidate agent; and
- b) detecting a modulation in the biglogical activity of said androgenic polypeptide on said shrimp or prawn a female shrimp or prawn, whereby said agent which modules the biological activity of said polypeptide is identified.
- 14. The method of claim 13, wherein said modulation comprises an increase in a biological activity of said androgenic polypeptide.
- 15. The method of claim 13, wherein sald modulation comprises a decrease in a biological activity of said androgenic polypeptide.
- 16. An agent that binds to an angrogenic polypeptide of a shrimp or prawn.
- 17. The agent of claim 16 wherein said agent is an antibody.
- 18. The agent of claim 17, wherein said antibody is a monoclonal antibody.